



ACIM USER'S MANUAL

A00296 Rev. K

This Manual covers revision G and H of the AC Isolation Module.

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Revision Location

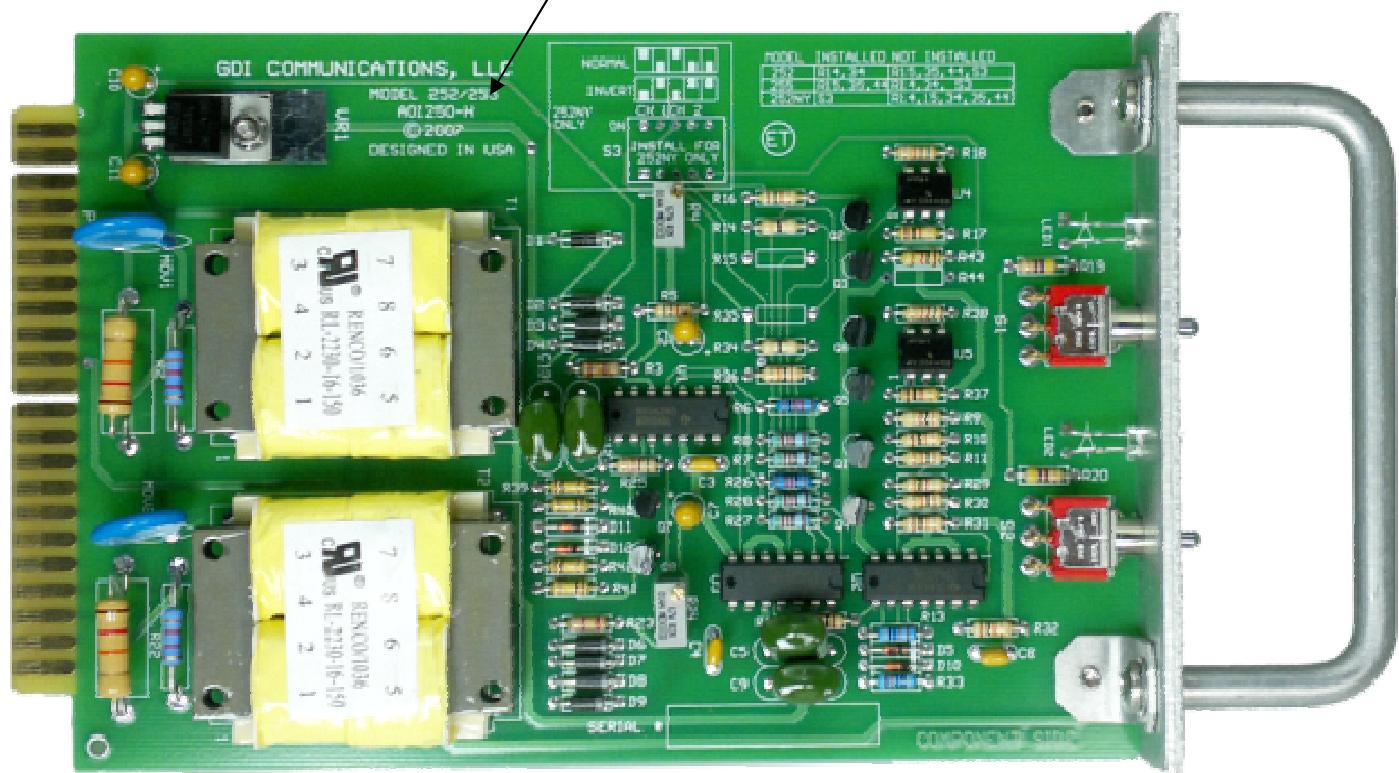


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GENERAL DESCRIPTION

The GDI Model ACIM AC Dual Isolation Module consists of two functionally identical input channels that detect the presence or absence of AC on their inputs and convert these conditions to 170 compatible signals. Each channel provides input isolation, voltage hysteresis and timing to qualify an input signal.

The output can be configured to be CLOSED (252) when signal is present on the input or OPEN (255) when the signal is present.

FEATURES

Form factor consistent with the standard input file.

Front panel mounted output status indicators.

Front panel mounted test switches.

Handle to facilitate insertion and removal.

Lightning protection.
Input isolation.

Requires less than 1W per channel from cabinet supply.

Power-up Output Clamp.
Prevents erroneous outputs on power up.

GENERAL CHARACTERISTICS

ACIM-252:

Output is ON when a signal greater than 80 Volts ± 3 Volts is applied for a period of 110 ms ± 15 ms.

Output is OFF when a signal of less than 70 Volts ± 3 Volts is applied for a period of 110 ms ± 15 ms.

ACIM-255:

Output is OFF when a signal greater than 80 Volts ± 3 Volts is applied for a period of 110 ms ± 15 ms.

Output is ON when a signal of less than 70 Volts ± 3 Volts is applied for a period of 110 ms ± 15 ms.

ACIM-252/255 LA Version:

Output is ON (OFF for the 255) when a signal greater than 83 Volts ± 3 Volts is applied for a period of 150 ms ± 50 ms.

Output is OFF (ON for the 255) when a signal of less than 67 Volts ± 3 Volts is applied for a period of 150 ms ± 50 ms.

ACIM-252/255 NY Version:

The “NY” version of the module incorporates a dipswitch, S3, which is used to change the output polarity.

Voltages passing through the hysteresis band during a timing cycle will restart timing without affecting the output state.

The input has been designed to withstand the discharge of a 10-microfarad capacitor charged to ± 1000 Volts directly applied across the input pins, with no load present on the input pins.

The input has been designed to withstand the discharge of a 10-microfarad capacitor charged to ± 2000 Volts when connected across either the input pins or from either side of the input pins to equipment ground, with a dummy resistive load of 5 Ohms attached across the input pins.

ENVIRONMENTAL

**Temperature -37 to +74° C
Humidity 95% non-condensing**

INSTALLATION

Installing the module consists of simply plugging it into an unoccupied slot in the Input File and connecting field signals and controller signals to the appropriate positions on the corresponding rear terminal block. The module is keyed to prevent incorrect installation.

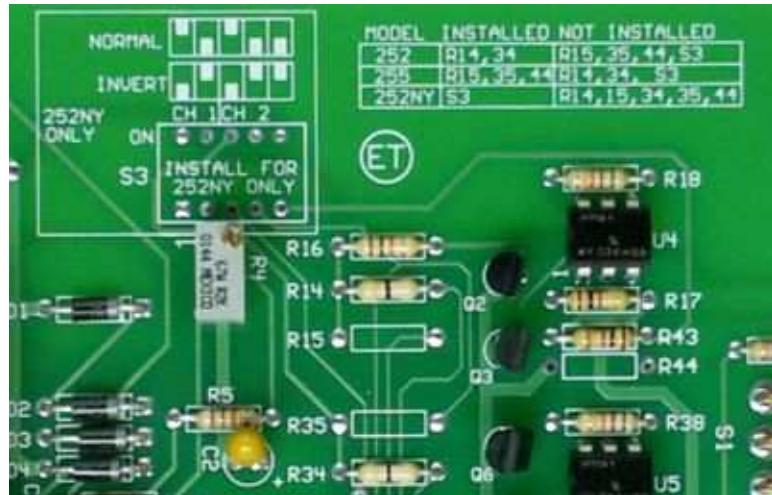
Connector Terminations

INPUTS		OUTPUTS	
CHANNEL 1	CHANNEL 2	CHANNEL 1	CHANNEL 2
D and E	J and K	F(+) and H(-)	W (+) and X(-)

Adjustments

The ACIM does not require adjusting.

NOTE: The output polarity can be changed by moving the configuration zero ohm resistors. This must be accomplished by a qualified technician.
On the 252NY, this can be accomplished using S3.



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